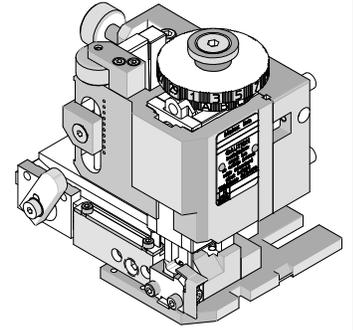




# FineAdjust Applicator Specification Sheet Order No. 63901-6200



## FEATURES

- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of .015mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other

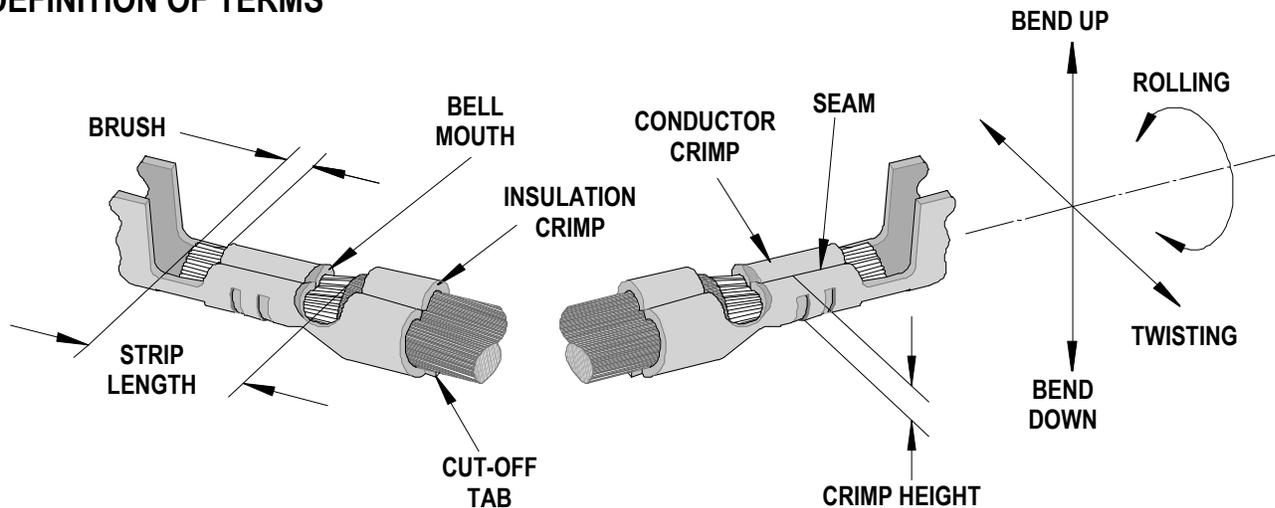
## SCOPE

Products: 1.00mm (.039") Wire-to-Board Crimp Terminal, 28-32 AWG.

Terminal Series No.	Terminal Order No.	Wire Size		Insulation Diameter				Strip Length	
				IPC/WHMA-A620 ♦		Terminal ♦♦			
		AWG	mm <sup>2</sup>	mm	In.	mm	In.	mm	In.
48229	48229-0001	28	0.08	0.41-0.80	.016-.032	0.41-0.80	.016-.032	1.40-1.60	.055-.063
	48229-0002	30	0.05						
	48229-0003	32	0.03						

♦ To achieve optimum IPC-A620 insulation crimps, use this insulation OD range.  
♦♦ Overall insulation OD specification for terminal.

## DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

## CRIMP SPECIFICATION

Terminal Series No.	Bell mouth		Cut-off Tab Maximum		Conductor Brush	
	mm	In.	mm	In.	mm	In.
48229	0.10-0.30	.004-.012	0.50	.020	0.05-0.25	.002-.010

Terminal Series No.	Bend up	Bend down	Twist	Roll	Punch Width mm (Ref)				Seam Seam shall not be open and no wire allowed out of the crimping area
					Conductor		Insulation		
	Degree (Max)		Degree (Max)		mm	In	mm	In	
48229	6	6	5	7	0.60	.024	0.70	.028	

After crimping, the conductor profile should measure the following.

Terminal Series No.	Wire Size	Actual mm <sup>2</sup>	Conductor Crimp				Pull Force Minimum	
			Crimp Height		Crimp Width (Ref.)		N	Lb.
			mm	In.	Mm	In.		
48229	28AWG	0.08	0.55-0.62	.021-0.24	0.63	.025	10.0	2.25
	30AWG	0.05	0.50-0.57	.019-.022	0.63	.025	5.0	1.13
	32AWG	0.03	0.45-0.52	.017-.020	0.63	.025	3.0	.67

Terminal Series No.	Wire Size	Actual mm <sup>2</sup>	Insulation			
			Crimp Height (Max.)		Crimp Width (Ref.)	
			mm	In.	mm	In.
48229	28AWG	0.08	1.35	.053	0.78	.031
	30AWG	0.05	1.35	.053	0.78	.031
	32AWG	0.03	1.35	.053	0.78	.031

Pull Force should be measured with no influence from the insulation crimp.

The above specifications are guidelines to an optimum crimp.

**PARTS LIST**

<b>FineAdjust Applicator 63901-6200</b>				
<b>Item</b>	<b>Order No</b>	<b>Engineering No.</b>	<b>Description</b>	<b>Quantity</b>
<b>Perishable Tooling</b>				
	63901-6270	63901-6270	Tool Kit (All "Y" Items)	REF
1	63457-0069	63457-0069	Conductor Punch	1 Y
2	63455-0095	63455-0095	Conductor Anvil	1 Y
3	63446-0713	63446-0713	Insulation Punch	1 Y
4	63445-0708	63445-0708	Insulation Anvil	1 Y
5	63443-0003	63443-0003	Front Cut-Off Plunger	1 Y
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y
<b>Other Components</b>				
7	11-18-4083	60707-8	Feed Guide	1
8	11-24-1067	4996-4	Cut-Off Plunger Spring	1
9	63443-0009	63443-0009	Front Scrap Chute	1
10	63443-0024	63443-0024	Key	1
11	63443-0090	63443-0090	Wire Stop	1
12	63443-1718	63443-1718	18.80mm Height Spacer	1
13	63443-2217	63443-2217	17.00mm Spacer	1
14	63443-2307	63443-2307	3.35mm Spacer	1
15	63443-2803	63443-2803	Front Plunger Striker	1
16	63443-2904	63443-2904	Wire Hold Down Plunger	1
17	63443-6003	63443-6003	Rear Cover	1
18	63600-0021	63600-0021	Wire Hold Down Spring	1
<b>Frame</b>				
19	63800-4901	63800-4901	Top	1
20	63801-3281	63801-3281	Base	1
21	63801-4650	63801-4650	Track	1
<b>Hardware</b>				
22	N/A	N/A	M3 by 6 Long SHCS	2**
23	N/A	N/A	M3 by 6 Long FHCS	1**
24	N/A	N/A	M4 by 6 Long SHCS	2**
25	N/A	N/A	M4 by 12 Long BHCS	2**
26	N/A	N/A	M4 by 50 Long SHCS	2**
27	N/A	N/A	M5 by 12 Long SHCS	1**
28	N/A	N/A	#10-32 by 3/8" Long Flat Point SSS	1**
29	N/A	N/A	#10-32 Hex Jam Nut	1**
** Available from an industrial supply company such as MSC (1-800-645-7270).				

# Assembly Drawing

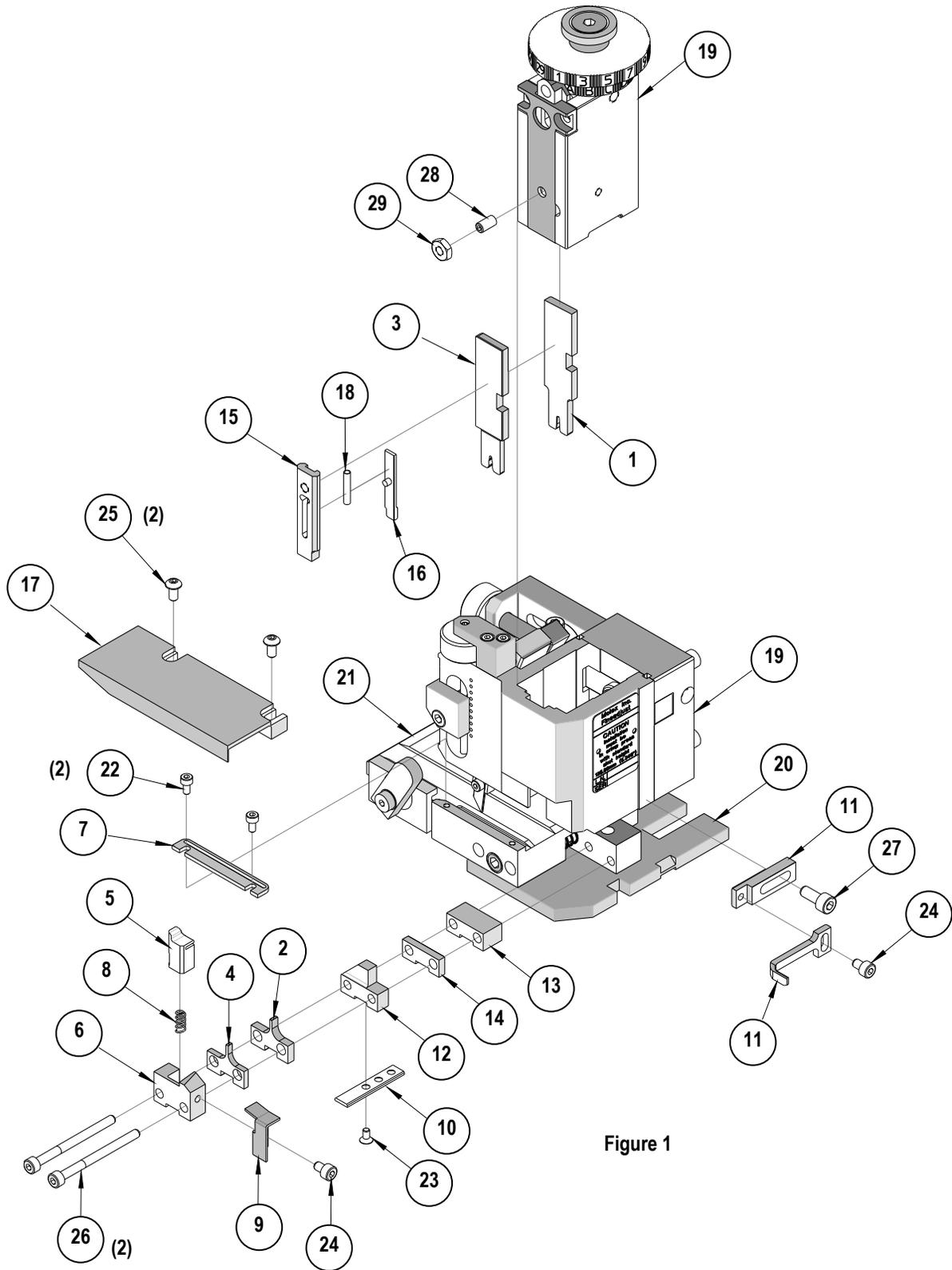


Figure 1

## NOTES

1. Molex recommends an extra perishable tooling kit be maintained at your facility.
2. Verify tooling alignment by manually cycling the press and Applicator before crimping under power. Check that all screws are tight.
3. Slugs, Terminals, Dirt and Oil should be kept clear of work area.
4. Wear safety glasses at all times.
5. For recommended maintenance refer to the FineAdjust Manual.

**CAUTION:** This applicator should only be used in a press with a shut height of 135.8mm (5.346"). Tooling damage could result at a lower setting.

**CAUTION:** To prevent injury never operate this Applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

**CAUTION:** Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling.

**Americas Headquarters**  
Lisle, Illinois 60532 U.S.A.  
1-800-78MOLEX  
amerinfo@molex.com

**Far East North Headquarters**  
Yamato, Kanagawa, Japan  
81-462-65-2324  
feninfo@molex.com

**Far East South Headquarters**  
Jurong, Singapore  
65-6-268-6868  
fesinfo@molex.com

**European Headquarters**  
Munich, Germany  
49-89-413092-0  
eurinfo@molex.com

**Corporate Headquarters**  
2222 Wellington Ct.  
Lisle, IL 60532 U.S.A.  
630-969-4550  
Fax: 630-969-1352

Visit our Web site at <http://www.molex.com>